

display message data derived from the elected input. The display message generator combines the display message with said video signal.

Katsuyama et al. disclose a disk replay (Karaoke) apparatus which includes an on screen display superimposer (50) where display messages are inserted into an NTSC output display signal (51) for display beyond the replay apparatus.

The Examiner states that Katsuyama et al. lacks a receiving means. However, in addition Katsuyama et al. fails to show or suggest that display message data is coupled from the Karaoke apparatus to the receiving means where the message is generated and combined with the display signal.

Specifically Katsuyama et al. fails to show or suggest applicants' recited,

"...means coupled to said receiving means for generating a display message responsive to display message data derived from said selected input and for combining said display message with said video signal. "

The Examiner looks to the teachings of Abe et al. to provide Katsuyama et al. the receiving means it lacks. The Examiner states,

"However, it is noted that incorporating a receiving capable of receiving the broadcast digital signal and reproduced digital signal is well known in the art to as taught by Abe et al."

Applicants traverse this statement specifically for the reasons disclosed in applicants' specification.

Furthermore the invention of Katsuyama et al. is a Karaoke machine which of necessity includes an on screen display arrangement to display lyrics for singing accompaniment. Katsuyama et al. makes no mention nor suggestion that the video signal from the player and a data signal representing the lyrics are coupled as a second input to a receiver. In addition Katsuyama et al. fails to mention or suggest that the lyric OSD is generated and added to the video signal external to the Karaoke machine. Thus one of ordinary skill, familiar with the teaching of Katsuyama et al. can not find any motivation within Katsuyama et al. to look to Abe et al. as a source of modification. Thus lacking any motivation, applicants respectfully suggest that the asserted obvious combination is impermissibly based on applicants' own teachings.

However, assuming arguendo the Examiner's asserted obvious combination of the receiver of Abe et al. which receives the NTSC signal from the disk player of Katsuyama et al. The resulting receiver may be capable of displaying either a digital broadcast signal or an NTSC replay signal from disk player of Katsuyama et al. However, the receiver of Abe et al. is unable to

function as applicants' recite because Katsuyama et al. make no mention nor suggestion that display message data is coupled to the receiving means for generating a display message. Furthermore Abe et al. makes no mention of receiving display message data, nor generating a display message responsive to received display message data, nor does Abe et al. show or suggest combining the display message with the video signal.

Although the Examiner's asserted obvious combination of the receiver of Abe et al. may be operable to receive an NTSC signal with OSD from the disk player, the resulting arrangement is not as applicants' recite namely a digital television receiver. In addition Katsuyama et al., fail to disclose outputting display message data, and Abe et al. does not suggest receiving display message data from the input, nor does Abe et al. disclose generating a display message therefrom and combining display message with the video signal. Thus because Katsuyama et al. fails to provide motivation to one of ordinary skill and the asserted obvious combination fails to yield applicants' recited receiver and receiving means, claim 1 is not rendered obvious by the combination of Katsuyama et al. in view of Abe et al., withdrawal of the rejection under 35 USC 103(a) is respectfully requested.

With regard to claim 2 the Examiner states that,

"Katsuyama further teaches that the reproducing digital including data representative of a text display message (Figs. 21 and 24)."

However, claim 2 depends from claim 1, and for the same reasons is not rendered obvious. Although Katsuyama et al. acquires message data it is used to generate message video for insertion into the replay video signal within the apparatus of Katsuyama et al. and thus it is unlike that which applicants recite in claims 1 and 2. Withdrawal of the rejection of claim 2 is respectfully requested.

Claims 3 - 10 stand rejected under 35 U. S. C 103(a) as being unpatentable over Katsuyama et al. in view of Abe et al. and Levine.

Applicants traverse the rejection of claims 3 - 10.

Claim 3 depends from claim 1 and is for the same reasons, not rendered obvious. Claim 3 recites the digital television receiver of claim 1, and further comprises a memory storing a plurality of graphical messages selectably coupled for combining with the video signal in accordance with a control command from the receiver.

The Examiner states that,

"Katsuyama fails to teaches the use of a memory for storing messages as recited in claims 3 and 6."

The Examiner states that,

"Levin teaches a apparatus having a memory for storing the message to be superimposed on a video signal (column 5 lines 1-25)."

Although the Examiner's citation of Levin discloses memory 24 storing messages, Levin's memory is located within and is part of video recorder 10.

Thus, as discussed with regard to applicants' claim 1 from which claim 3 depends, the asserted obvious combination of Katsuyama et al. in view of Abe et al. and Levine fails to yield applicants' recited claim 3 arrangement of the digital television receiver of claim 1, further comprising a memory storing a plurality of graphical messages selectably coupled for combining with said video signal in accordance with a control command from said receiver. Furthermore, although Levin discloses that memory 24 stores messages, Levin also shows and discloses that the messages are generated and inserted into the replay signal within unit 10 for R.F. modulated 35/36 for transmission 14 to receiver 12. Thus the Examiner's asserted obvious combination of Katsuyama et al. in view of Abe et al. and Levine fails to yield applicants' recited claim 3 arrangement and withdrawal of the rejection of claim 3 is respectfully requested.

Claim 4 depends from claims 1 and 3 and is for the same reasons not rendered obvious by the Examiner's asserted obvious combination. In claim 4 applicants' recite,

" said plurality of graphical messages includes messages specific to said reproduction apparatus. "

As discussed for claim 3, Levin discloses that memory 24 is located within recorder 10 and stores messages for generation and insertion into the replay signal within recorder 10. Because the Examiner's combination fails to yield applicants' digital television receiver with a memory storing a plurality of messages specific to the reproduction apparatus, applicants' claim 4 is not obvious and withdrawal of the rejection is respectfully requested.

Claim 5 depends from claims 1, 3 and 4 and is for the same reasons not rendered obvious by the Examiner's asserted obvious combination. In claim 5 applicants' recite that the digital television signal from the reproduction apparatus includes data for selecting a graphical message specific to the reproduction apparatus.

The Examiner's asserted obvious combination of Katsuyama et al. in view of Abe et al. and Levine fails to disclose or suggest applicants recited,

"...digital television signal from said reproduction apparatus includes data for selecting a graphical message specific to said reproduction apparatus. .."

Since neither singly, nor in combination, the references fail to disclose or suggest that a digital television signal from the reproduction apparatus includes data for selecting a reproducer specific message from the memory within the digital receiver, applicants' claim 5 is clearly not rendered obvious and withdrawal of the rejection is respectfully requested.

In claim 6 applicants' recite a receiving device coupled to a reproduction apparatus for receiving and decoding digital signals. The receiving device comprises means for receiving a digital video signal and first and second control signals from the reproduction apparatus. A decoder is coupled to the receiving means for decoding the digital video signal and generating a video display signal therefrom. An on screen display message generator is coupled to the decoder for generating and combining a display message with the video display signal. A memory contains message data for on screen display, the message data represents display messages for the receiving device and for the reproduction apparatus. A controller receives the first and second control signals and is coupled to the generating means and the memory for selecting message data. In response to the first control signal selecting a specific message stored for the reproduction apparatus, and absent the specific message data in the memory the controller couples the second control signal to the generating means for generating a message therefrom.

Stated more concisely, a receiver is coupled to a reproduction apparatus for receiving and decoding digital signals. The receiver includes an OSD generator and memory which stores messages for both the receiver and the reproduction apparatus. A controller receives the first and second control signals from the reproduction apparatus and responsive to the first control signal selects a reproducer specific message from the memory. If the selected reproducer specific message is absent from the memory the controller couples the second control signal to the message generator which generates a message from the second signal.

The Examiner cites Figs. 24 and 31 of Katsuyama et al, and states that in the absence of a specific message, a message is generated when a disk is unloaded stating NO DISK. This citation has no relevance to applicants' claim 6 recitation because applicants recite using the second control signal to generate an OSD in the absence of a stored message being selected by applicants' first control signal.

As discussed with respect to claims 1 - 5 the Examiner's asserted obvious combination of references, Katsuyama et al. in view of Abe et al. and Levine fails to disclose or suggest applicants' recited,

"...means for receiving a digital video signal and first and second control signals from said reproduction apparatus..."

Not one of the of the combination of references discloses or suggest that a digital video signal with first and second control signals is coupled to the receiving means from the reproduction apparatus.

Although Levine discloses memory 24 which stores messages, the memory is located within recorder 10 for generation and insertion of recorder messages into the replay signal within recorder 10. The Examiner's combination fails to mention or suggest applicants recited,

"...memory containing message data for on screen display, said message data representing display messages for said receiving device and for said reproduction apparatus..."

Furthermore Levine fails to disclose or suggest that memory 23 stores messages for both the reproducer and the receiver as applicants recite.

Finally neither singly, nor in combination do the Examiner's asserted obvious combination of references disclose or suggest that;

"...responsive to said first control signal selecting a specific message stored for said reproduction apparatus, and absent said specific message data in said memory, said controller coupling said second control signal to said generating means for generating a message therefrom. ..."

Clearly, since the asserted obvious combination fails to store messages in the receiver; fails to store replay specific messages therein, and fails to receive controls signals for message selection or generation the obviousness rejection is without merit and should be withdrawn. Claim 6 is not rendered obvious by the combination of Katsuyama et al. in view of Abe et al. and Levine, withdrawal of the rejection under 35 U. S. C 103(a) is respectfully requested.

Claim 7 depends from claim 6 and is for the same reasons not rendered obvious. As discussed previously although Levine employs a memory, it is within the recorder and stores only recorder messages for insertion into the replay signal. None of the Examiner's reference combination disclose or suggest that;

"...said memory contains a plurality of display message data corresponding to a plurality of video signal sources. ..".

Because the reference combination fails to disclose a memory storing messages for a plurality of sources applicants' claim 7 is additionally patentable and withdrawal of the rejection is respectfully requested.

Claims 8, 9 and 10 depend from claim 6 and are, for the same reasons not rendered obvious by the Examiner's reference combination. Withdrawal of the rejection of claims 8, 9 and 10 is respectfully requested.

It has been demonstrated that the asserted obvious combination of references fails to yield or describe applicants' recited claim elements, therefore applicants respectfully request the withdrawal of the rejections and the prompt allowance of claims 1 - 10.

Respectfully submitted

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September 18, 2001

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